

REMARKS

Claims 1-10, 21-30, 40-48, 51, 52, 55, 56, 59-61, 63 and 65 are currently pending in this application. The Examiner has rejected claims 1-10, 21-30, 40-48, 51, 52, 55, 56, 59-61, 63 and 65 under 35 U.S.C. § 103(a). In the present reply, the Applicants have amended claims 1, 4, 21, 24, 40, 43, 51, 55, 59, and 61. The Applicants have canceled claims 2, 3, 5, 6, 22, 23, 41, 42, 52, 56, and 60, 63 and 65 without prejudice and reserve the right to prosecute said claims in a continuation application, a divisional application, or other filing. The Applicants submit that no new matter has been introduced into the application by these amendments.

Claim Rejections - 35 USC §103(a)

The Examiner has rejected claims 1-5, 10, 21-25, 30, 40-44, 51-52, 55-56, 59-61, 63 and 65 under 35 U.S.C. 103(a) as being unpatentable over Okajima et al. (U. S. Publication No. 20010018346) in view of Sambhwani et al. (U. S. Publication No. 200702 17486) and further in view of Bayley et al. (U.S. Patent No. 6,944 ,143).

The Examiner has rejected claims 6, 26, and 45 under 35 U.S.C. 103(a) as being unpatentable over Okajima in view of Sambhwani and further in view of Bayley et al. and further in view of Hasegawa (U.S. Patent No. 5,862,476).

The Examiner has rejected claims 7-9, 27-29, 46-48 under 35 U.S.C. 103(a) as being unpatentable over Okajima in view of Sambhwani and further in view of Bayley et al. and further in view of Hudson (U. S. Publication No. 2002/0176485).

Claims 1,4, 7-10, 21, 24-30, 40, 43-48, 51, 55, 59, 61

The Okajima reference discloses a mobile communication system including base stations connected to a stationary terminal station through a packet communication network wherein the packet communication network issued as a packet transmission path for packets transmitted or received among the base stations. Okajima further discloses a control unit in the communication system that records received signal strengths in a radio-channel information management table.

There is no disclosure, teaching, or suggestion in the Okijama reference of selecting communication signals of the plurality of communication signals based on a received power of each communication signal, the selected communication signals having a received power exceeding a threshold, including at least one desired communication signal. Nor is there any disclosure, teaching, or suggestion of identifying a plurality of other cells based upon a cell specific scrambling code or ranking a plurality of other cells based upon a received power originating from the plurality of other cells.

The Sambhwani reference discloses an initial cell search procedure in which the scrambling code of each cell is transmitted on a periodic basis and the period of the scrambling code is thirty-eight thousand and four hundred chips. There is no disclosure, teaching, or suggestion in the Sambhwani reference of identifying a plurality of other cells based upon the received power originated from a plurality of

other cells. Nor is there any disclosure, teaching, or suggestion of identifying the plurality of other cells based upon cell specific scrambling code.

Accordingly, the Sambhwani reference fails to cure the deficiencies of the Okajima reference.

The Bayley reference discloses a controller that evaluates a search list to select the next strongest base station, wherein the controller passes search parameters for the selected base station to a search engine. There is no disclosure, teaching, or suggestion in the Bayley reference of selecting communication signals of the plurality of communication signals based on a received power of each communication signal, the selected communication signals having a received power exceeding a threshold. Nor is there any disclosure, teaching, or suggestion of electing at least one particular undesired signal of the plurality of undesired signals for processing from at least one highest ranked other cell or producing a channel estimate for each selected communication signal based on the cell of that selected undesired communication.

Accordingly, the Bayley reference fails to cure the deficiencies of the Okajima and the Sambhwani references.

The Hasegawa reference discloses a mobile station measuring the receive signal strength of a broadcast signal received from a base station until a timer is timed out. There is no disclosure, teaching, or suggestion in the Hasegawa reference of selecting communication signals of the plurality of communication signals based on a received power of each communication signal, the selected

communication signals having a received power exceeding a threshold. Nor is there any disclosure, teaching, or suggestion of producing a channel estimate for each selected communication signal based on a cell of that selected undesired communication and jointly detecting data of selected communication signals.

Accordingly, the Hasegawa reference fails to cure the deficiencies of the Okajima, Sambhwani, and the Bayley references.

The Hudson reference discloses using training sequences with a cyclic prefix for pilot tones in orthogonal frequency division multiplexing a code division multiple access schemes. There is no disclosure, teaching, or suggestion in the Hudson reference of selecting communication signals of the plurality of communication signals based on a received power of each communication signal, the selected communication signals having a received power exceeding a threshold. Nor is there any disclosure, teaching, or suggestion of ranking the plurality of other cells based upon the received power originating from the plurality of other cells.

Accordingly, the Hudson reference fails to cure the deficiencies of the Okajima, Sambhwani, Bayley, and the Hasegawa references.

Therefore, amended independent claims 1, 21, 40, 51, 55, 59, and 61 are patentable over the Okajima, Sambhwani, Bayley, Hasegawa, and Hudson references, whether taken alone or in any combination with one another.

Since claims 4 and 7-10 depend, either directly or indirectly, from the Applicants' patentable amended independent claim 1, they are therefore patentable for at least the same reasons as patentable amended independent claim 1. Since

claims 24-30 depend, either directly or indirectly, from the Applicants' patentable amended independent claim 21, they are therefore patentable for at least the same reasons as patentable amended independent claim 21. Since claims 43-48 depend, either directly or indirectly, from the Applicants' patentable amended independent claim 40, they are therefore patentable for at least the same reasons as patentable amended independent claim 40.

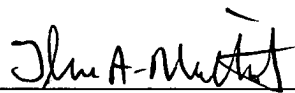
Conclusion

If the Examiner believes that any additional minor formal matters need to be addressed in order to place this application in condition for allowance, or that a telephone interview will help to materially advance the prosecution of this application, the Examiner is invited to contact the undersigned by telephone at the Examiner's convenience.

In view of the foregoing amendment and remarks, Applicants respectfully submit that the present application, including claims 1, 4, 7-10, 21, 24-30, 40, 43-48, 51, 55, 59 and 61, is in condition for allowance and a notice to that effect is respectfully requested.

Respectfully submitted,

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